

## Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

## **Features and Benefits**

Frequency range: 122.88MHz Output: LVDS Supply voltage: 3.3V Current: 90mA Max. Frequency stability vs. temperature: ±50PPM Operating temperature: -20°C to +70°C Size: 2.5x2x1mm Package type: SMD VCXO2520BM-LJ\_LVDS-122.88MHz-232 2.5x2.0mm 122.88MHz LVDS VCXO

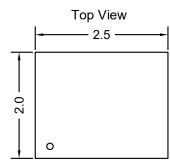


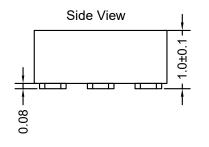
#### **Typical Applications**

Defense Systems Mobile Radar Station Gigabit Ethernet, SONET/SDH Server & Storage, Data Center SD/HD Video, FPGA Clock Generation

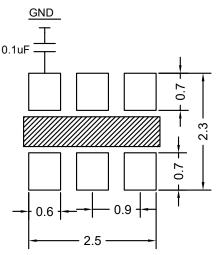
#### **Mechanical Drawing & Pin Connections**







	Function	PIN
	Control Voltage	#1
1	OE	#2
1	GND	#3
	OUTPUT	#4
	OUTPUT_N	#5
	Supply Voltage	#6
-		



Please keep the middle area blank. Do not layout any lines in this space. To ensure optimal oscillator performance, place a by-pass capacitor of  $0.1\mu F$  as close to the part as possible between Vcc and GND pads

Unit in mm 1mm = 0.0394 inches



# Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

### CdWJZjWrjcbg

Oscillator Specification	0		Value			Unit	Note
	Sym	Condition	Min.	Тур.	Max.		
Operational Frequency	f <sub>0</sub>			122.88		MHz	
RF Output							
Output Waveform				LVDS	-		
Output Level		Output high			1.6	V	
		Output low	0.9			V	
Duty Cycle			45		55	%	
Rise & Fall Time					0.35	ns	
Startup Time					8	ms	
Tri-State		Enable	0.7 V <sub>cc</sub>			V	
(Input to Pin2)		Disable			$0.3 V_{cc}$	V	
Power Supply							
Voltage	Vcc		2.97	3.3	3.63	V	
Supply Current					90	mA	
Control Voltage							
Control Voltage	Vc		0.3	1.65	3	V	
Pulling Range			±50		±250	ppm	
Linearity					±10	%	
Frequency Stability							
Versus Temperature					±50	ppm	
RMS Phase Jitter		Integrated 12KHz-20MHz			300	fs	
Environmental Condition	ons						
Operating temperature ra	inge	-20°C to +70°C					